

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 101575,696
Source: TEWOP
Date Processed by STIC: S-1-06

ENTERED



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/575,696

DATE: 05/01/2006
TIME: 09:43:48

Input Set : A:\13751-019US1.txt
Output Set: N:\CRF4\05012006\J575696.raw

4 <110> APPLICANT: Prentice, Holly
5 Caamano, Louisa
8 <120> TITLE OF INVENTION: FLP-mediated Recombination
11 <130> FILE REFERENCE: 13751-019US1
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/575,696
C--> 13 <141> CURRENT FILING DATE: 2006-04-13
13 <150> PRIOR APPLICATION NUMBER: PCT/US2004/033868
14 <151> PRIOR FILING DATE: 2004-10-14
16 <150> PRIOR APPLICATION NUMBER: US 60/511,610
17 <151> PRIOR FILING DATE: 2003-10-14
19 <160> NUMBER OF SEQ ID NOS: 5
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 5130
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Synthetic construct
31 <400> SEQUENCE: 1
32 cgcgtgtgag cggataacaa tttcacacag gaaacagcta tgaccatgat tacgccaagc 60
33 ttgacattga ttattgacta gtattataata gtaatcaatt acggggcat tagttcatag 120
34 cccatatatg gagttcccgcg ttacataact tacggtaat ggccgcctg gctgaccgcc 180
35 caacgacccc cgccccattga cgtaataat gacgtatgtt cccatagtaa cgccaaatagg 240
36 gactttccat tgacgtcaat gggtgagta tttacggtaa actgcccact tggcagtaca 300
37 tcaagtgtat catatgccaat gtacgcccc tattgacgtc aatgacggta aatggccgc 360
38 ctgcattat gcccagtaca tgacctttag ggactttctt acttggcagt acatctacgt 420
39 attagtcattc gctattacca tggtgatgct gttttggcag tacatcaatg ggcgtggata 480
40 gcggtttgac tcacggggat ttccaagtct ccacccatt gacgtcaatg ggagttgtt 540
41 ttggcaccaa aatcaacggg actttccaaa atgtcgtaac aactccgccc cattgacgca 600
42 aatgggcggg aggcgtgtac ggtgggaggt ctatataagc agagctcggt tagtgaaccg 660
43 tcagatcgcc tggagacgccc atccacgctg tttgacccatc catagaagac accgggaccc 720
44 atccagcctc cgcggccggg aacgggtcat tggAACCGGG attcccccgtg ccaagagtga 780
45 cgtaagtacc gcctatagag tctataggcc caccggcttgc gcttctttagt catgtataac 840
46 tgggggttgc ttggggctta tacacccccc cttccatcg ttataggtga tggtagatct 900
47 tagcttatag gtgtgggtta ttgaccattt ttgaccactc ccctattggt gacgatactt 960
48 tccattacta atccataaca tggcttttgc ccacaactct ctttattggc tatatgccaa 1020
49 tacactgtcc ttcagagact gacacggact ctgtatTTT acaggatggg gtctcattta 1080
50 ttatTTTacaat attcacatata acaacaccac cgtccccagt gcccgcgtt ttatTTTaaac 1140
51 ataaacgtggg atctccacgc gaatctcggt tacgtttcc ggaacgggtt agggcagtgt 1200
52 agtctgagca gtactcggtt ctggcccgcg cgccaccaga cataatagct gacagactaa 1260
53 cagactgttc cttccatgg gtctttctg cagtcaccgt cttcacacg gctagcggtt 1320
54 aaacttaagc ttggtaccga gctcggttcc actagtgccag tgggtggaa ttctgcagat 1380
55 atccagcaca gtggcgcccg ctgcgttca gagggccgt ttaaaccgc tgatcagcct 1440

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/575,696

DATE: 05/01/2006
TIME: 09:43:48

Input Set : A:\13751-019US1.TXT
Output Set: N:\CRF4\05012006\J575696.raw

56 cgactgtgcc ttctagttgc cagccatctg ttgtttgccc ctccccgtg ctttccttga 1500
 57 cccttggagg tgccactccc actgtcctt cctaataaaa tgaggaaatt gcatcgcatt 1560
 58 gtctgagtag gtgtcattctt attctggggg gtgggggtgg gcaggacagc aagggggagg 1620
 59 attgggaaga caatagcagg catgctgggg atgcgggtgg ctctatggct tctgaggcgg 1680
 60 aaagaaccag ctggggctct aggggtatc cccacgcgcc ctgtagcggc gcattacgcg 1740
 61 cggcgggtgt ggtggttacg cgacgcgtga ccgcgtacact tgccagcggc ctagcgcgg 1800
 62 ctctttcgc ttcttcctt tccttctcg ccacgttgc cggcttccc cgtcaagctc 1860
 63 taaatcgggg yctccctta gggttccgat ttatgtctt acggcacctc gaccccaaaa 1920
 64 aacttgatta gggtgatggt tcacgtaccc agaagttctt attccgaagt tcctattctc 1980
 65 tagaaagtat aggaacttcc ttgggggttc gaccattgaa ctgcattgtc gccgtgtccc 2040
 66 aaaatatggg gattggcaag aacggagacc taccctggcc tccgctcagg aacgagttca 2100
 67 agtacttcca aagaatgacc acaaccttcc cagtggaaagg taaacagaat ctggtgatta 2160
 68 tggtaggaa aacctgggttc tccattctcg agaagaatcg acctttaaag gacagaatta 2220
 69 atatagttct cagtagagaa ctcaaaagaac caccacgagg agctcatttt ctggccaaaa 2280
 70 gttggatga tgccttaaga cttattgaac aaccggaaatt ggcaagtaaa gtagacatgg 2340
 71 tttggatagt cggaggcagt tctgtttacc aggaagccat gaatcaacca ggccacctca 2400
 72 gactcttgc tacaaggatc atgcaggaat ttgaaagtga cacgttttc ccagaaattt 2460
 73 atttggggaa atataaactt ctcccagaat acccaggcgt cctctctgag gtccaggagg 2520
 74 aaaaaggcat caagtataag tttgaagtct acgagaagaa agactaagta tacaacttgt 2580
 75 ttattytcayc ttataatggt tacaataaaa gcaatagcat cacaatattc acaaataaag 2640
 76 cattttttc actgcattctt agttgtgggt tgccttactt catcaatgtt tcttatcatg 2700
 77 tctgttatac cgtcacccctc tagctagagc ttggcgtaat catggtcata gctgtttcct 2760
 78 gtgtgaaatt gttatccgct cacaattcca cacaacatac gagccggaaag cataaagtgt 2820
 79 aaagcctggg gtgcctaattt agtgagctaa ctcacattaa ttgcgttgcg ctcactgccc 2880
 80 gcttccagt cggaaaccc tgcgtgccag ctgcattaaat gaatcggcca acgcgcgggg 2940
 81 agaggcgggt tgcgtattgg gcgtcttcc gcttcctcgc tcactgactc gtcgcgtcg 3000
 82 gtcgttcggc tgcggcgagc ggtatcagct cactcaaagg cggtaatacg gttatccaca 3060
 83 gaatcagggg ataacgcagg aaagaacatg tgagcaaaag gccagcaaaa ggccaggaac 3120
 84 cgtaaaaaagg ccgcgttgct ggcgttttc cataggctcc gccccctga cgagcatcac 3180
 85 aaaaatcgac gctcaagtca gaggtggcga aaccggacag gactataaag ataccaggcg 3240
 86 tttccccctg gaagctccct cggtcgctt cctgttccga ccctgcgcgt taccggatac 3300
 87 ctgtccgcct ttctccctt gggaaagcgtg gcgtttctc atagctcagc ctgttaggtat 3360
 88 ctcaagttcgg tgcgttgcgt tgcgttccaaat ctgggtgtg tgcacgaacc ccccggttca 3420
 89 cccgaccgct gcgccttatac cggttaactat cgtcttgagt ccaaccgggt aagacacgac 3480
 90 ttatcgccac tggcagcagc cactggtaac aggattagca gagcgaggtt tgtaggcgg 3540
 91 gctacagagt tcttgaagtgt gtggcctaactt tacggctaca cttagaaggac agtatttgg 3600
 92 atctgcgttc tgcgttgcgtt agttacccat ggaaaaaagg ttggtagctc ttgtatccggc 3660
 93 aaacaaacca ccgttggtag cggtgggtt tttgttgcg aacggcgtt tacgcgcaga 3720
 94 aaaaaaggat ctcaagaaga tcctttgatc ttttctacgg ggtctgcac tcagtggaaac 3780
 95 gaaaactcac gttaagggtat ttgggtcatg agattatcaa aaaggatctt cacctagatc 3840
 96 ctttaaattt aaaaatgaag tttaaatca atctaaagta tatatgagta aacttggtct 3900
 97 gacagttacc aatgtttaat cagtggggca cctatctcg cgatctgtct atttcggtca 3960
 98 tccatagttt cctgactccc cggtcgtagt ataactacga tacggggagg cttaccatct 4020
 99 ggcggcgtt ctcgtatgtat accggcggac ccacgttccac cggctccaga ttatcagca 4080
 100 ataaaccagc cagccggaaag ggccgagcgc agaagtggtc ctgcacattt atccgcctcc 4140
 101 atccagtcta ttaatttttgc cccggaaactt agagtaagta gttcgccagt taatagtttgc 4200
 102 cgcacgttg ttggcatttgc tacaggcatc gtgggttcac gtcgtcgat tggatggct 4260
 103 tcattcagct ccgggttccca acgtcaagg cgagttacat gatccccat gttgtgcaaa 4320
 104 aaagcggtt gtccttcgg tcctccgatc gttgtcagaa gtaagttggc cgcgtgttca 4380

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/575,696

DATE: 05/01/2006

TIME: 09:43:48

Input Set : A:\13751-019US1.TXT

Output Set: N:\CRF4\05012006\J575696.raw

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/575,696

DATE: 05/01/2006
TIME: 09:43:48

Input Set : A:\13751-019US1.TXT
Output Set: N:\CRF4\05012006\J575696.raw

159 cgctttcttc ctttccttc tcgccacgtt cgccggctt ccccgtaag ctctaaatcg 1800
160 ggggtccctt taggggtccg atttagtgc ttacggcacc tcgaccccaa aaaacttgat 1860
161 tagggtgatg gttcacgtac ctagaagtcc ctattccgaa gttccttattc tctagaaagt 1920
162 ataggaactt cttgggggt tcgaccattt aactgcattc tcgcccgttc ccaaaatatg 1980
163 gggattggca agaacggaga cttaccctgg cttccgctca ggaacgagtt caagtacttc 2040
164 caaagaatga ccacaacctc ttcaagtggaa ggttaaacaga atctggtgat tatggtagg 2100
165 aaaacctggt tctccattcc tgagaagaat cgacatttaa aggacagaat taatataatt 2160
166 ctcagtagag aactcaaaga accaccacga ggagtcatt ttcttgccaa aagtttggat 2220
167 gatgccttaa gacttattga acaaccggaa ttggcaagta aagtagacat ggtttggata 2280
168 gtcggaggca gttctgttta ccaggaagcc atgaatcaac caggccaccc cagactctt 2340
169 gtgacaaggaa tcattgcaggaa atttggaaagt gacacgttt tcccagaaat tgatttgggg 2400
170 aaatataaaac ttctccaga ataccaggc gtcctctctg aggtccagga ggaaaaaaggc 2460
171 atcaagtata agtttgaagt ctacgagaag aaagactaag tatacaactt gtttattgca 2520
172 gtttataatg gtttacaataa aagcaatagc atcacaattt tcacaataa agcatttttt 2580
173 tcactgcatt ctatgtgttgg tttgtccaaa ctcatcaatg tatcttatca tgtctggat 2640
174 accgtcgacc tctagactaga gcttggcgta atcatggtca tagctgttcc ctgtgtgaaa 2700
175 ttgttatccg ctcacaattc cacacaacat acgagccgga agcataaagt gtaaagcctg 2760
176 gggtgcctaa tgagtggact aactcacatt aattgcgttgc cgctactgc ccgccttcca 2820
177 gtcgggaa... ctgtcgtrcc agtgcattt aatgtatcgcc caacgcgcgg ggagggcg 2880
178 ttgtcgatggc gggcgctt cccgttccctc gtcactgac tcgctgcgtt cggctgttcc 2940
179 gtcggcgca gcggtatcg ctcactcaaa ggccgtataa cggttatccca cagaatcagg 3000
180 ggataacgcga gggaaagaaca tggtagccaa aggccagaa aaggccagga accgtaaaaaa 3060
181 gggcgcttg ctggcggttt tccataggtt ccgcggccctt gacgagcatc acaaaaatcg 3120
182 acgctcaagt cagagggtggc gaaaccgcac aggactataa agataccagg cgtttcccc 3180
183 tggaaagctcc ctcgtgcgttcc ctccgttcc gaccctgcgg cttaccggat acctgtccgc 3240
184 ctgttctccct tcgggaaagcg tggcgcttcc tcatacgctca cgctgttaggt atctcagttc 3300
185 ggttaggtc gttcgctcca agctggctg tggcacgaa ccccccgttc agcccgaccg 3360
186 ctgcgcctta tccggtaact atcgcttgc gtcaccccg gtaagacacg acttacgc 3420
187 actggcagca gccactggta acaggattag cagagcgagg tatgttaggcg tggtacaga 3480
188 gttcttgaag tggtaggcata actacggcta cactagaagg acagtatttgc gtatctgcgc 3540
189 tctgctgaag ccagttaccc tccggaaaaag agttggtagc tcttgcattcc gcaaaacaaac 3600
190 caccgctgggt agcggtgggt tttttgtttt caagcagcag attacgcgcgaa gaaaaaaagg 3660
191 atctcaagaa gatccttgc tctttctac ggggtctgac gtcagtggaa acgaaaaactc 3720
192 acgttaagggtt atttggtca tgagattatc aaaaaggatc ttccacccatca tccttttaaa 3780
193 taaaaaatga agttttaat caatctaaag tatatatgat taaacttggt ctgacagtt 3840
194 ccaatgctta atcgtgagg cacctatctc agcgatctgt ctatccgtt catccatagt 3900
195 tgcctgactc cccgtcggtt agataactac gatacgggag ggcttaccat ctggccccag 3960
196 tgcgtcaatg ataccgcgag accccacgcctc accggctcca gatttatcg caataaaacca 4020
197 gcccggcgaa agggccgagc gcagaagtgg tcctgcact ttatccgcct ccattccagtc 4080
198 tattaaattgt tgcggggaaat ctagagtaag tagttcgccat gttaatagtt tggtacacgt 4140
199 tggtaggtc gtcacaggca tcgtgggttc acgctcgatcc tttggatggat ccgttccat 4200
200 ctccgggttcc caacgatcaa ggcgagttac atgatcccccc atgttgcataaaaaaggcggt 4260
201 tagctccttc ggtcctccga tcgttgcgtt aagtaagtttgc gccgcgttgc tatcactcat 4320
202 gtttatggca gcaactgcata attcttctac tgcgtatggca tccgtaaatgat gctttctgt 4380
203 gactggtagt tactcaacca agtcatcgatc agaataatgtt atgcggcgac cgagttgcgc 4440
204 ttggccggcg tcaatacggg ataataccgc gccacatagc agaactttaa aagtgcctcat 4500
205 cattggaaaaa cgttcttcgg ggcgaaaaact ctcaaggatc ttaccggatc tggtatcccg 4560
206 ttgcgtatgttcc cccactcgatc caccctactg atcttcagca tctttactt tcaccagcg 4620
207 ttctgggtga gcaaaaaacag gaaggcaaaaa tgccgcaaaaa aaggaaataa gggcgacacg 4680

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/575,696

DATE: 05/01/2006

TIME: 09:43:48

Input Set : A:\13751-019US1.TXT

Output Set: N:\CRF4\05012006\J575696.raw

208 gaaatgttga atactcatac tcttccttt tcaatattat tgaagcattt atcagggtta 4740
 209 ttgtctcatg agcggataca tatttgaatg tatttagaaa aataaacaaa taggggttcc 4800
 210 ggcacattt cccccaaaag tgccacctga cgtcacgga tcgggagatc tcccgatccc 4860
 211 ctaggtgca ctctcagtag aatctgctct gatgccgcat agttaagcca gtatctgctc 4920
 212 cctgcttggc tggtggaggt cgctgagtag tgcgcgagca aaatttaagc tacaacaagg 4980
 213 caaggcttga ccgacaattt catgaagaat ctgcttaggg ttaggcgtt tgcgtgctt 5040
 214 cgcgatgtac gggccagata tacgcgtgt aqcgatcac aatttcacac agggaaacagc 5100
 215 tatgaccatg attacgccaa gcttgacatt gatiaattgac tagttattaa tagtaatcaa 5160
 216 ttacgggtc attagttcat agccccatata tggagttccg cgttacataa cttacggtaa 5220
 217 atggcccgcc tggctgaccg cccaaacgacc cccggccatt gacgtcaata atgacgtatg 5280
 218 ttcccatagt aacgccaata gggactttcc attgacgtca atgggtggag tatttacggt 5340
 219 aaactgccc cttggcagta catcaagtgt atcatatgcc aagtacgccc cctattgacg 5400
 220 tcaatgacgg taaatggccc gcctggcatt atgcccagta catgacccctt tggactttc 5460
 221 ctacttggca gtacatctac gtattagtc tcgcattttc catggtgatg cggtttggc 5520
 222 agtacatcaa tgggcgtgga tagcgggtt actcacgggg atttccaagt ctccacccca 5580
 223 ttgacgtcaa tgggagttt ttttggcacc aaaatcaacg ggactttcca aaatgtcgta 5640
 224 acaactccgc cccattgacg caaatggcgc gttagcgtgt acgggtggag gtctatataa 5700
 225 gcagagctcg ttttagtgaac cgtcagatcg cctggagacg ccattccacgc tggtttgacc 5760
 226 tccatagaaac acaccgggac cgatccagcc tccgcggccg ggaacgggtc attgaaacgc 5820
 227 ggattcccccg tgccaagagt gacgtaayta ccgcctatag agtctatagg cccacccccc 5880
 228 tggcttctta tgcattgtat actgtttttg gcttgggtc tatacacccccc cgttcctca 5940
 229 tggtaggtt gatggatag cttagcctat aggtgtgggt tattgaccat tattgaccac 6000
 230 tcccctattt gtgacgatac tttccattac taatccataa catggcttt tgccacaact 6060
 231 ctcttattt gctatatgcc aatacactgt ctttcagaga ctgacacgga ctctgttattt 6120
 232 ttacaggatg gggtctcatt tattatttac aaattcacat atacaacacc accgtccccca 6180
 233 gtgcccgcag tttttattaa acataaacgtg ggatctccac gcaaatctcg ggtacgtgtt 6240
 234 ccggaaacggt ggagggcagt gtatctgag cagtaactcg tgcgtcccg cgccacacca 6300
 235 gacataatag ctgacagact aacagactgt tccttccat gggtttttc tgcagtcacc 6360
 236 gtccttcaca cggctagcgt agattggcgc gccaagattt cccgggcaag cgggttaccc 6420
 237 tgccttctt agttggcagc catctgttgc ttgccttcc cccgtgcctt cctgaccct 6480
 238 ggaaggtgcc actcccactg tcctttccca ataaaatgag gaaattgcat cgcatgtct 6540
 239 gagtaggtgt cattcttattc tgggggggtgg ggtggggcag gacagcaagg gggaggattg 6600
 240 ggaagacaat agcaggcatg ctggggatgc ggtggctct atggggatcc ccaggaagct 6660
 241 cctctgtgtc ctcataaaacc ctaacctctt ctacttgaga ggacattcca atcataggct 6720
 242 gcccattccac cctctgtgtc ctctgtttaa ttagtcaact taaacaaaaaa ggaatttggg 6780
 243 taggggtttt tcacagaccg ctttctaagg gtaattttaa aatatctggg aagtccttc 6840
 244 cactgtgtg ttccagaagt gttggtaaac agcccacaaa tgtcaacacgc agaaacatac 6900
 245 aagctgtcag ctttgcacaa gggccctttt ttttaattt ttattttattt ttattttga 6960
 246 gatggagtct cgacgcttc ctttatgcga ctccgtcatt aggaagcagc ccagtagtag 7020
 247 gttgaggccg ttgagcaccg cccggccaaag gaatggtgca tgcaaggaga tggcccca 7080
 248 cagtcccccg gccacggggc ctgcccaccaat acccaacggc aaacaagcgc tcattgaccc 7140
 249 gaagtggcga gcccgtatctt ccccatcggt gatgtcggcg atataggcgc cagcaaccgc 7200
 250 acctgtggcg ccgggtgatgc cggccacgat gcgtccggcg tagag 7245
 254 <210> SEQ ID NO: 3
 255 <211> LENGTH: 2660
 256 <212> TYPE: DNA
 257 <213> ORGANISM: Homo sapiens
 259 <400> SEQUENCE: 3
 260 qaattcaqca ctqaatcatq cccqaqaaccc ccqcaatcta ttggctgtqc tttqccccc 60

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/575,696

DATE: 05/01/2006

TIME: 09:43:49

Input Set : A:\13751-019US1.TXT

Output Set: N:\CRF4\05012006\J575696.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date